



MY COMMUTE
LAKE COUNTY

SOV Reduction Study

Advisory Group Meeting #1

June 23, 2020

10am



Meeting Agenda



Introductions &
Zoom Meeting
Ground Rules



Study Background
and Purpose



Study Scope



Existing and
Future Conditions



ID and Evaluate
SOV Reduction
Measures



Public Outreach /
Public Survey

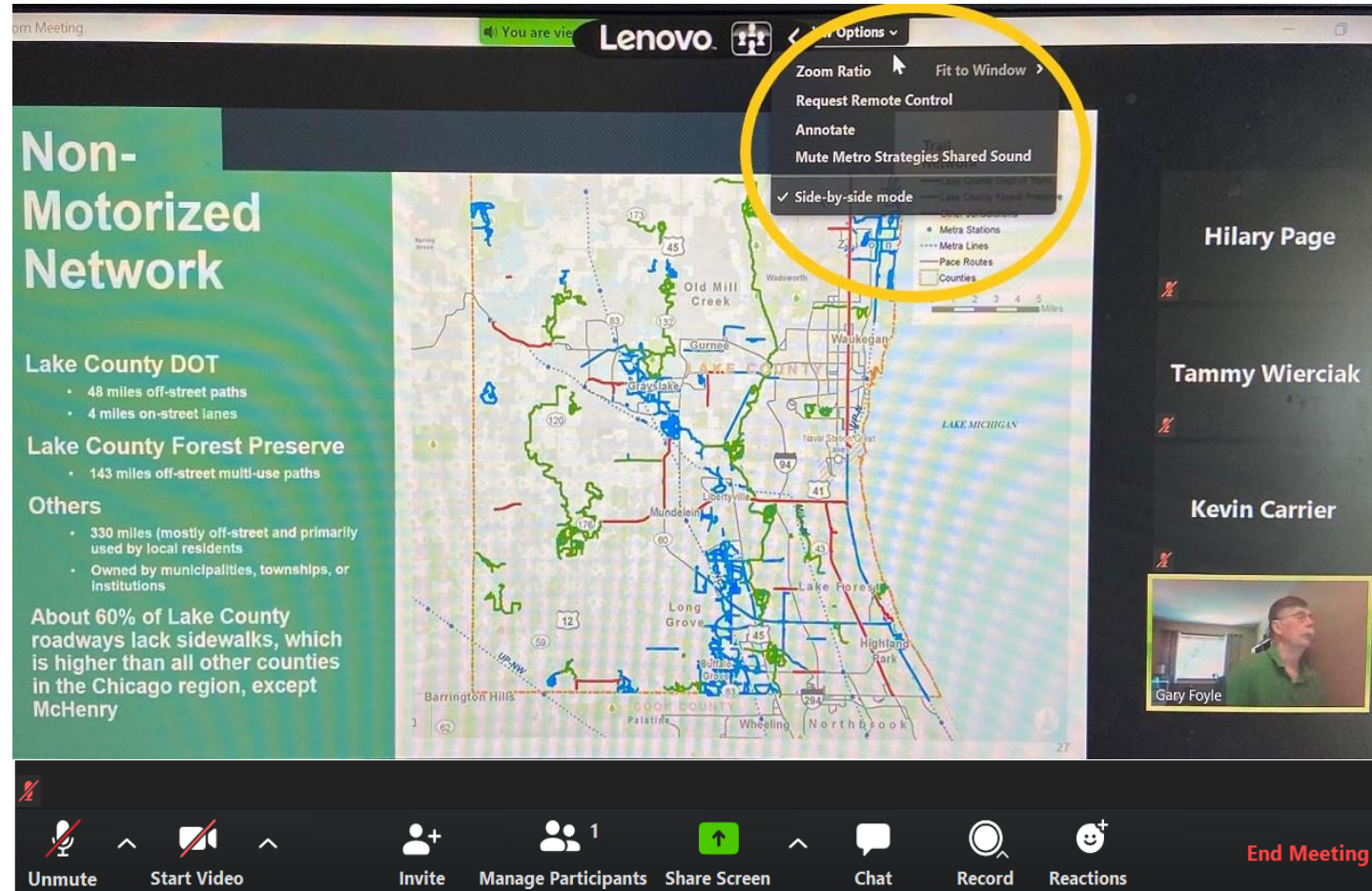


Next Steps

1. Introductions & Zoom Meeting Ground Rules

Zoom Etiquette

- Please be aware of your audio and video settings, which can be found on the bottom-left corner of your screen
 - Click on the mute icon when you are not speaking
 - If you wish to send a message, click on the chat box on the bottom of your screen
- To conserve bandwidth, please refrain from using your video – the panelists will take turns using their video
- If you have downloaded Zoom, you may view the PowerPoint presentation and panelist simultaneously by clicking on View Options located on the top of your screen then click side-by-side mode



Introductions

- Lake County DOT
- Consultant Teams
 - AECOM
 - Metro Strategies Inc.
 - Joseph Schwieterman – DePaul University

2. Study Background & Purpose

Study Background

- Auto dominates as the primary mode of transportation in Lake County
- Average households drive about 23,000 miles per year, most by Single Occupancy Vehicles (SOV)
- SOV work trips:
 - 77% of people who live in Lake County
 - 80% of people who work in County
 - Growth in shares since 1990
- Heavy reliance on SOV contributes to congestion and environmental impacts due to vehicle emissions

Year	Place of Residence		Place of Work	
	Workers who Drive Alone	% of all Workers	Workers who Drive Alone	% of all Workers
1990	200,994	74.4%	183,853	75.0%
2000	242,361	76.3%	254,995	78.2%
2006-2010	260,540	76.7%	277,370	78.8%
2012-2016	269,150	77.2%	292,865	80.2%
1990 vs 2016	+34%	+2.8%	+59%	+5.2%

Study Purpose

Cost Effective

Identify cost-effective strategies to shift individuals away from driving alone, making the transportation system more efficient for all residents, workers and visitors

Long-Term

Think differently in addressing mobility for the long-term well-being of Lake County

Develop Partnerships

Identify willing partners to develop or collaborate on action and marketing plans to implement SOV reduction strategies

3. Study Scope

Study Tasks

1. **Existing and Future Conditions** | *draft report complete*
2. **ID & Evaluate Potential SOV Reduction Measures**
 1. Peer Interviews | *draft tech memo completed*
 2. Local Case Studies | *draft summary prepared*
 3. Literature Search | *in progress*
3. **ID Four Sub-regions & Recommend TDM Programs**
4. **Grant Program for SOV Projects**
5. **Evaluate Two Current Lake County Pilots**
6. **Final Report**
7. **Public and Stakeholder Outreach**

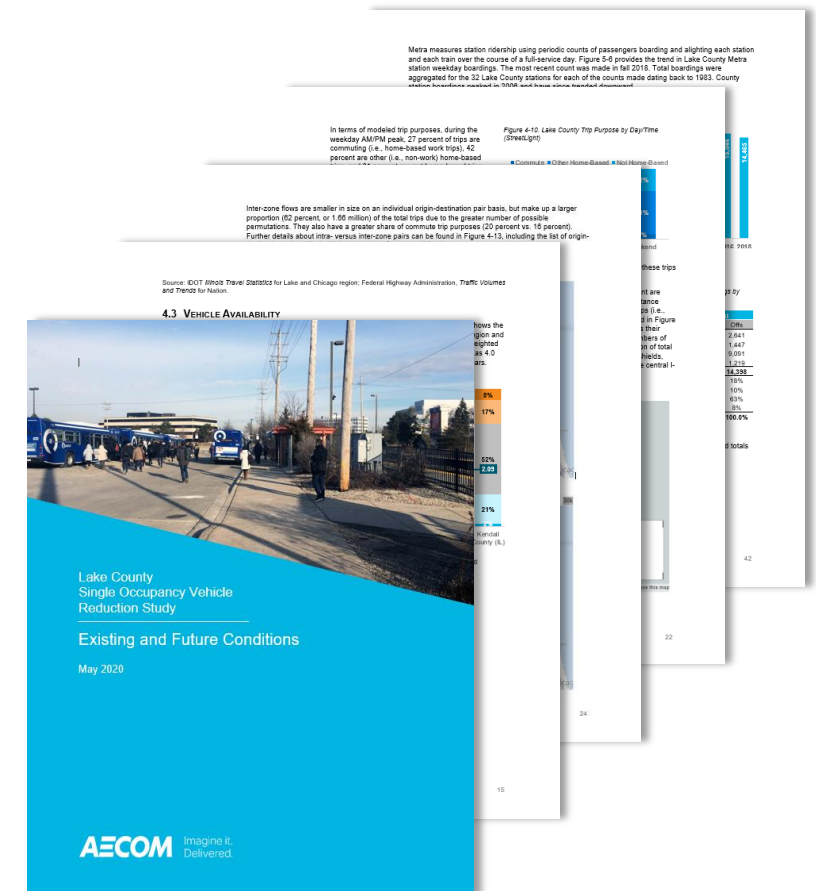
Questions?

4. Existing and Future Conditions

Existing & Future Conditions Report

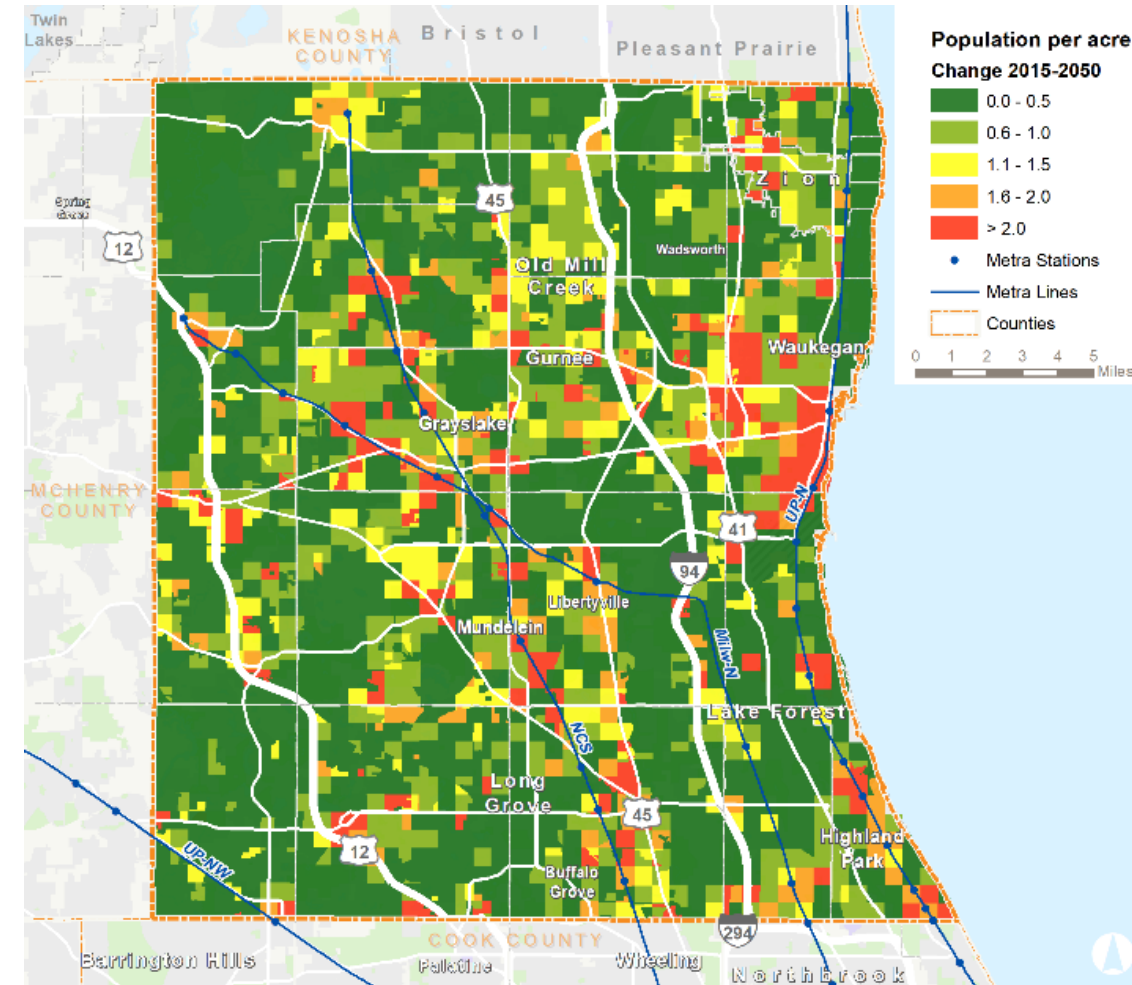
Reviews existing and future conditions of travel characteristics and transportation resources. The tech memo covered:

- Review of Relevant Plans and Studies;
- Socio-Economic Characteristics;
- Travel Characteristics; and
- Transportation Services and Facilities



Socio-Economic Trends & Forecast

- Lake County is expected to have **917,000 residents** and **417,000 jobs** by 2050, according to CMAP
 - That's 30% population growth and 23% job growth
 - Lake County's projected growth is faster than the Chicago region, estimated at 27% (population) and 22% (jobs)
- Red areas on maps highlight rapid growth
 - Areas of high population growth are often on the periphery of existing development
 - Not shown: high job growth centers on transportation corridors (both transit and roadway)



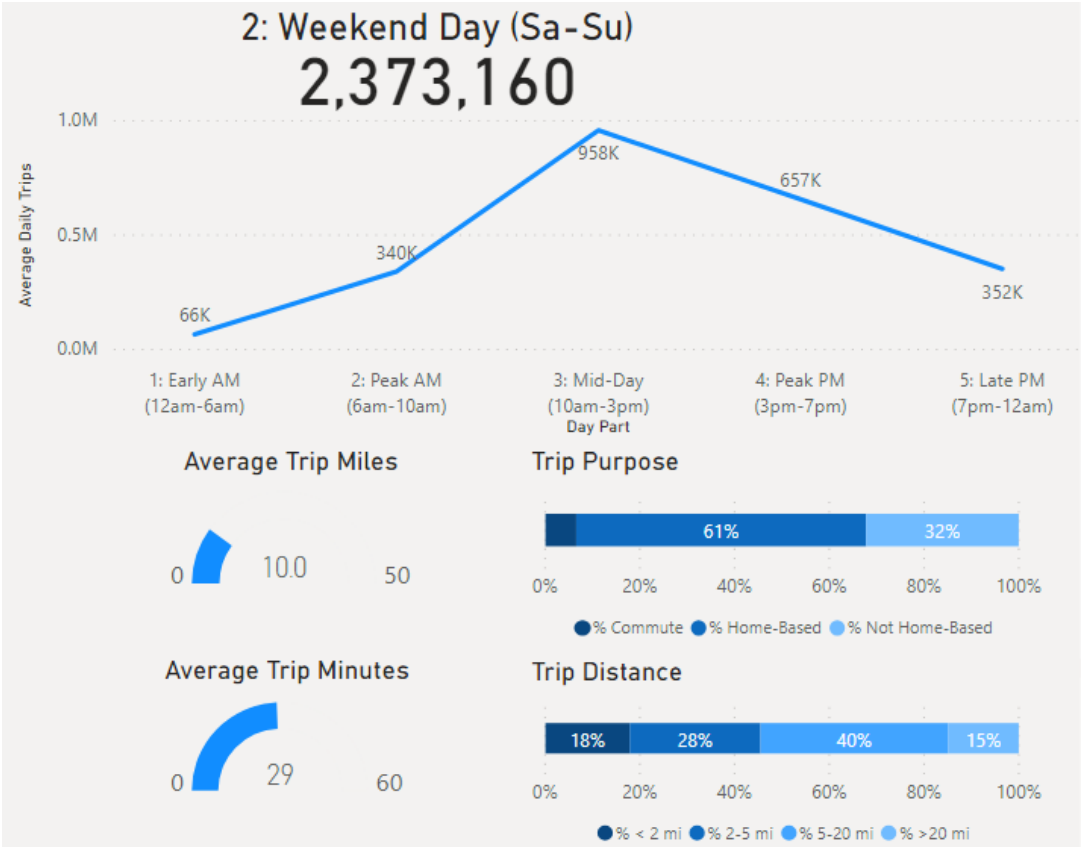
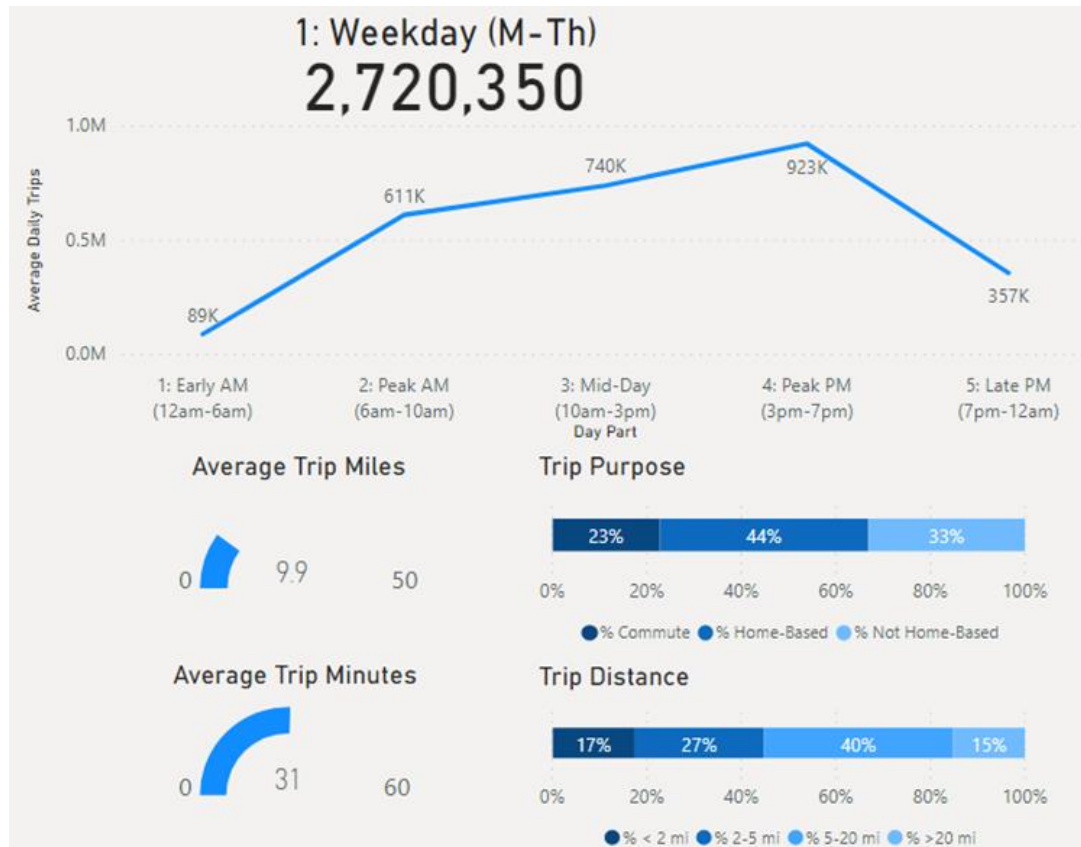
Travel Flow Analysis

- Travel flows between 37 macro zones analyzed using StreetLight data and Census commuter data sources (LODES and CTPP)
- StreetLight data covers all trips, while Census data only reports on commuting trips
- Each dataset has its strengths and weaknesses, but combined they provide a good overview



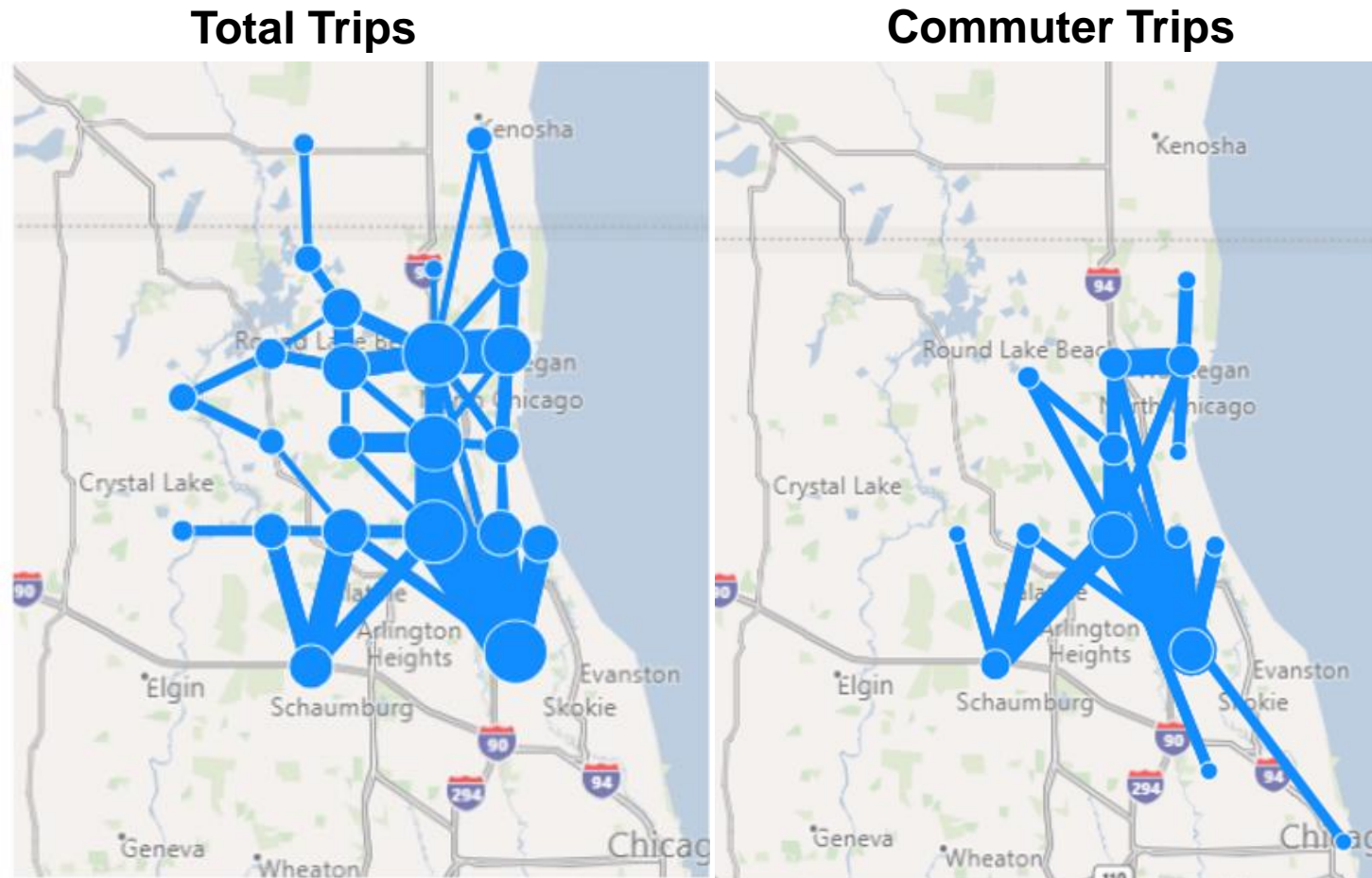
Travel Flows: 2019 Overview

- About 2.7 million trips either start or end in Lake County on a typical workweek day, and 2.4 million trips on weekends



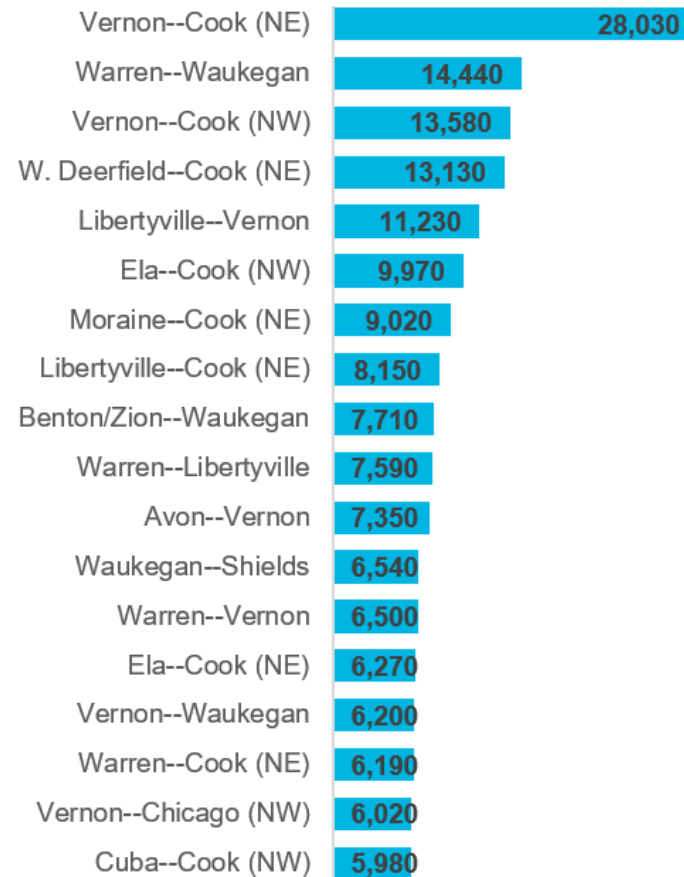
Travel Flows: Top Total Trip Markets

- The top total trip markets:
 - Within Lake County, e.g.:
 - Warren-Waukegan
 - Libertyville-Vernon
 - Avon-Warren
 - Between north Cook Co. and south Lake Co.
- Top Commute markets:
 - Typically longer distance
 - Include trips into Chicago

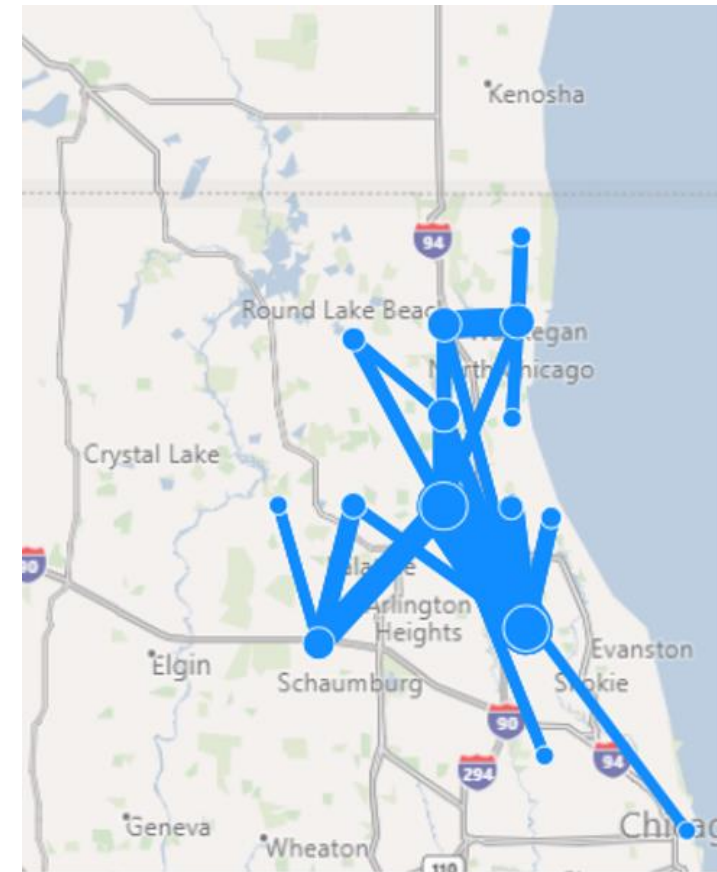


Travel Flows: Top Commute Markets

- 611,000 inter-zone trips
- 106,000 trips start & end in the same zone
 - For example, over 10,000 commute trips occur within Shields, Vernon, Waukegan, Warren, Libertyville

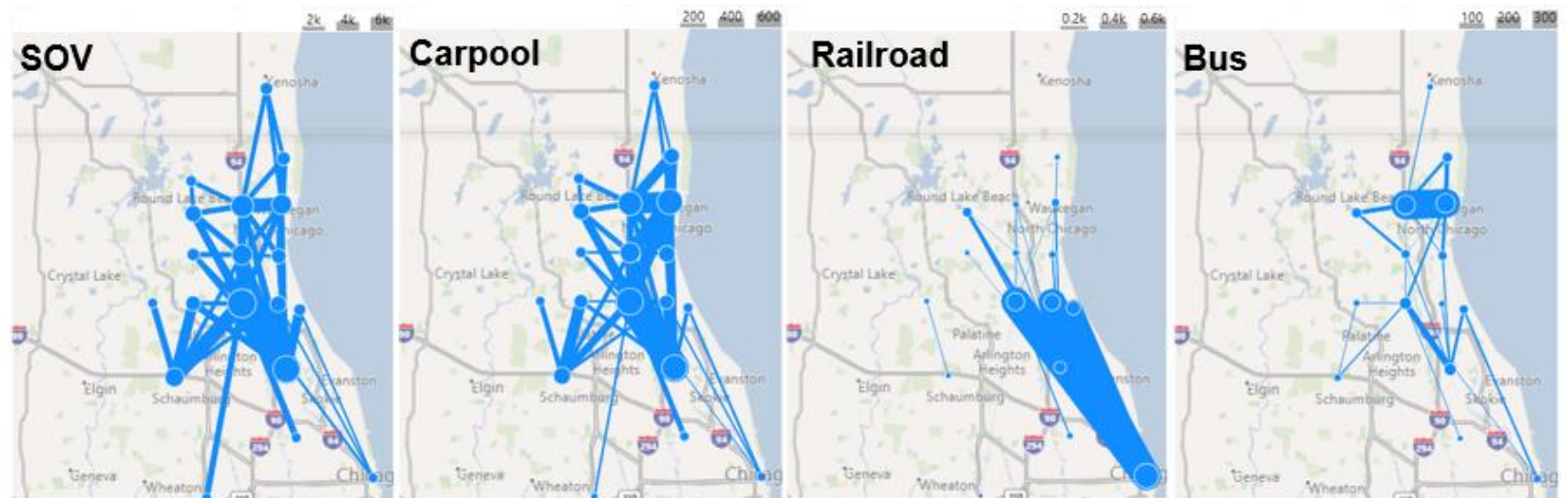


Commuter Trips



Travel Flows: Mode

- Mode share split varies by corridor, but typically >75% SOV
- Carpool ranges from 2% to >20%
- Most rail trips to Chicago, mode share ranges from 0% to >75%
- Bus rarely over 2%, except Warren, Waukegan, and select others (4-8%)
- Non-motorized rarely over 5%



SOURCE: Census Transportation
Planning Products (CTPP)

Travel Flows: Next Steps

- Baseline established with the initial township-level macro analysis
- Next step is to use these results to refine geographies for population and employment centers
- This more detailed analysis will be combined with **your input & ideas**, as well as transportation / traffic system data to identify the four pilot sub-regions

Questions?

Roadway Congestion (Current & Future)

Increase of ~5,700 miles of congested roadways (from 20% to 34%)
Every functional class expected to see a **doubling** of congested roadways

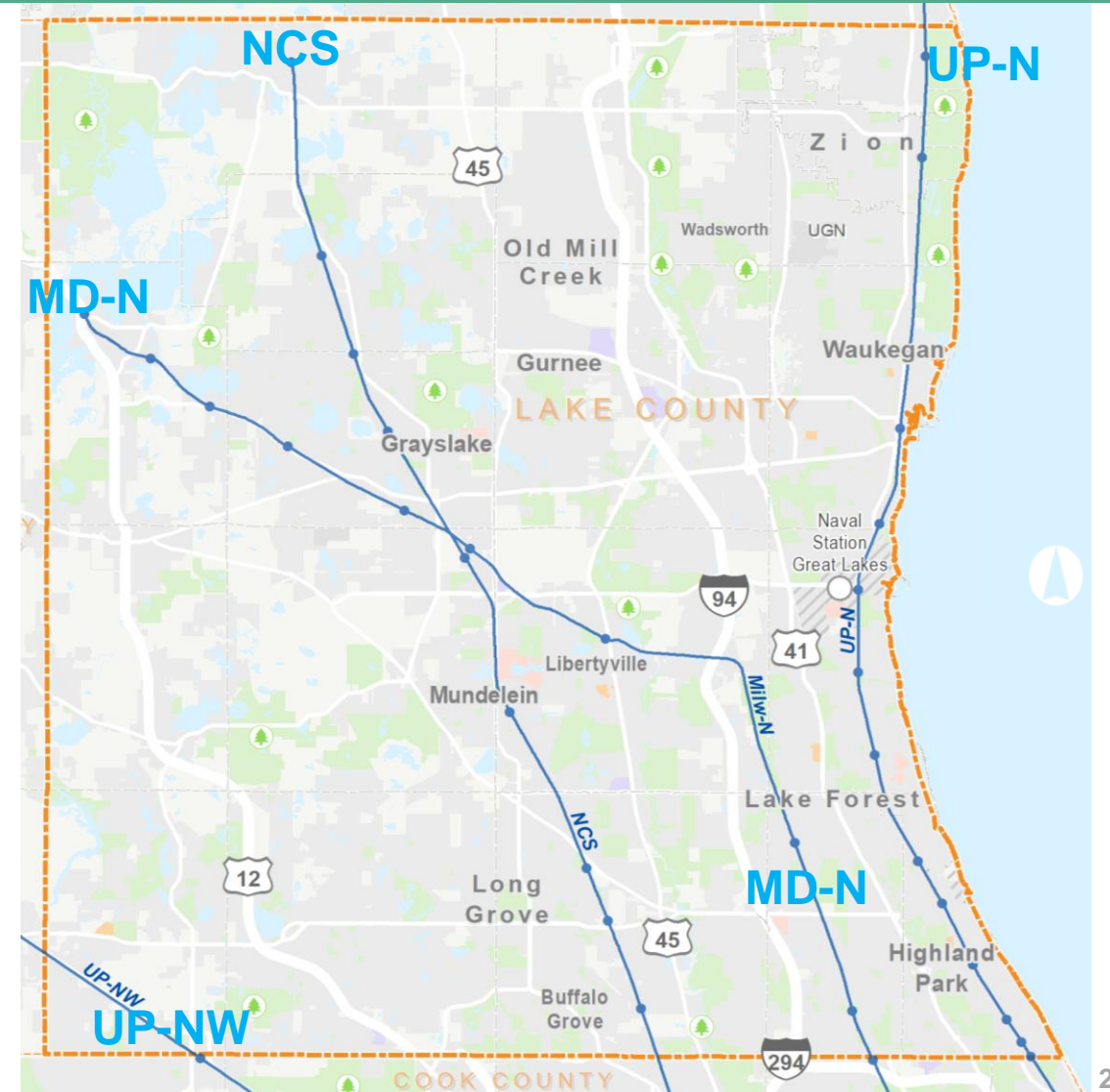
	2015		2050		Change in Congested	% Chg. in Congested
Functional Class	Total	Congested	Total	Congested		
Freeway/Tollway/Expressway	7,088	1,796	8,884	3,817	2,021	113%
Principal Arterial	9,221	1,885	11,432	3,795	1,910	101%
Minor Arterial	5,814	924	7,429	2,054	1,130	122%
Collector	2,340	310	3,400	940	630	203%
Total	24,462	4,914	31,144	10,606	5,691	116%
Percent Congested	20%		34%			

Metra Lines Serving Lake County

Metra Lines & 32 stations

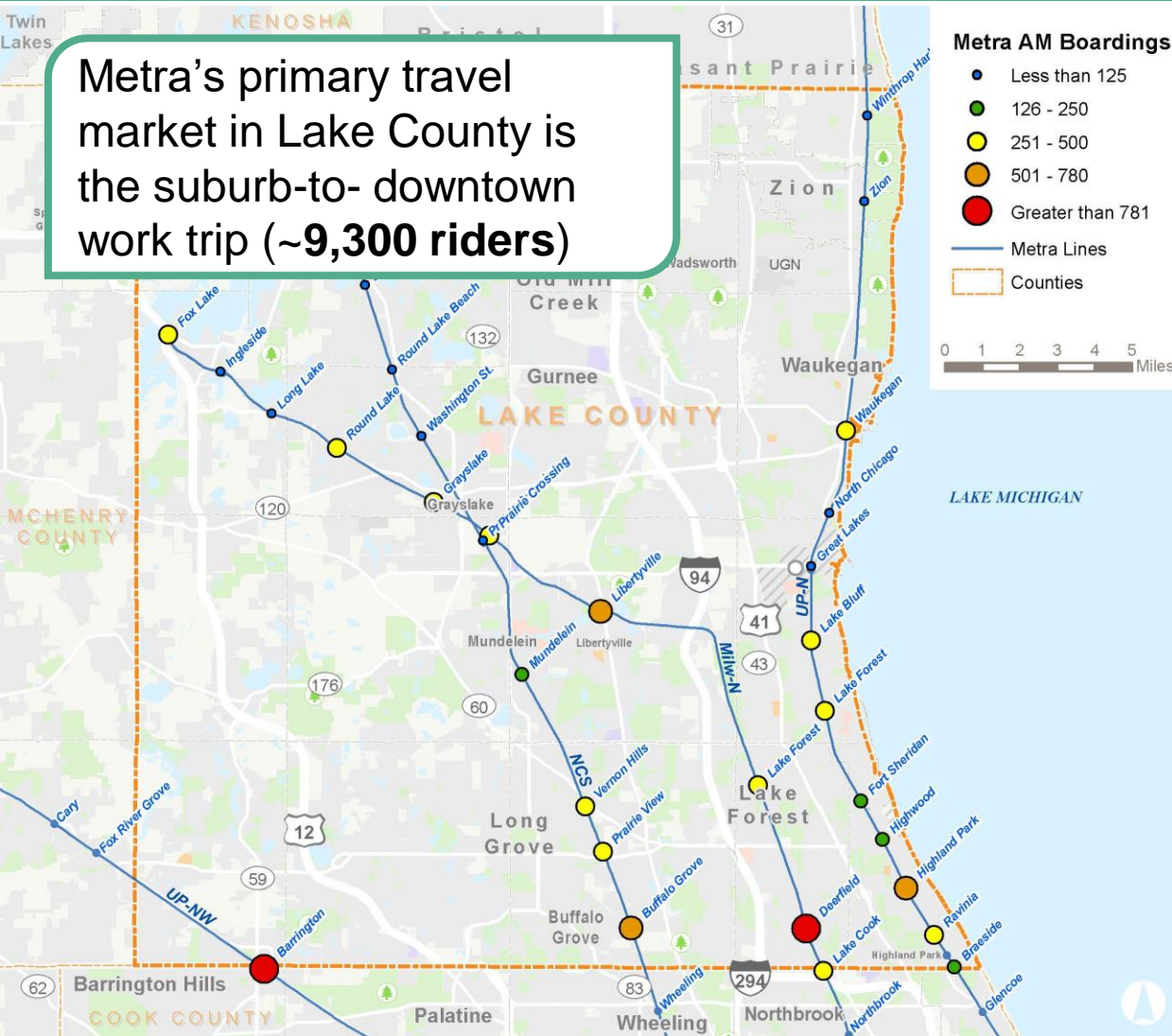
- To Ogilvie Transp. Center
 - **UP-N** to Kenosha (12 stations)
 - **UP-NW** to Harvard & McHenry (1 station)
- To Union Station
 - **MD-N** to Fox Lake (10 stations)
 - **NCS** to Antioch (9 stations)

NCS has limited weekday service and no weekend service

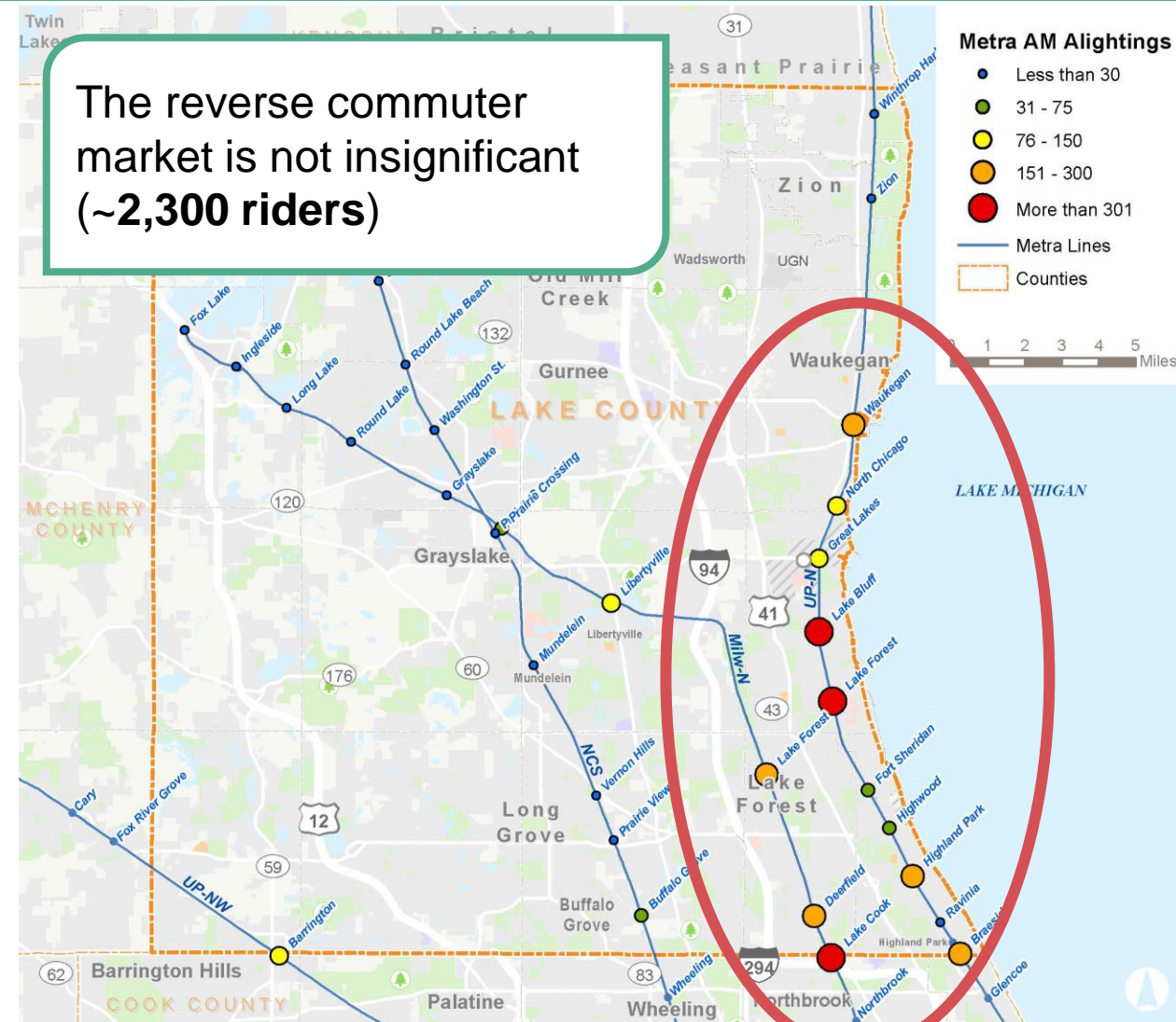


Metra Ridership (AM Boardings & Alightings)

Metra's primary travel market in Lake County is the suburb-to-downtown work trip (~9,300 riders)



The reverse commuter market is not insignificant (~2,300 riders)

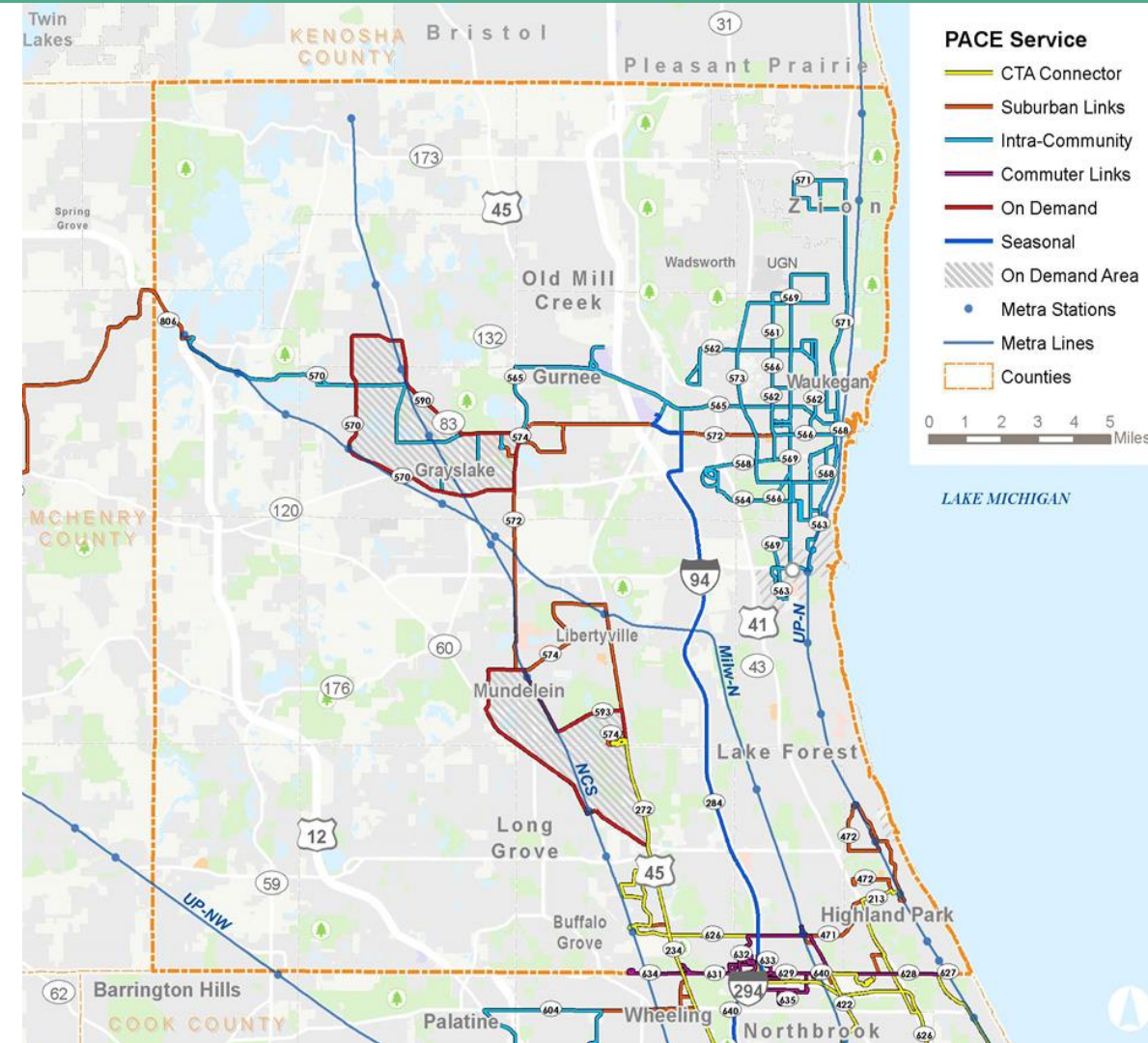


Pace Bus Ridership and Routes

- About **12,600 weekday Pace Bus riders** in 2019 (among 34 routes)
 - ~8,300 Saturday riders (14 routes)
 - ~5,000 on Sundays (5 routes)
- Lake Co. ridership by service group:

• Intra-Community	33%
• Seasonal	32%
• CTA Connector	17%
• Suburban Links	13%
• Commuter Links	5%
• On-Demand	1%

(Seasonal routes include Ravinia and Schaumburg-Great America Gurnee Express)



Pace

Other Programs

- Vanpool Programs
 - Traditional
 - Employer Shuttle
 - Metra Feeders
 - Advantage Van
- Regional RideShare



Other Transportation Resources

- **Transportation Network Companies (TNC)**, such as, Uber, Lyft
- **Taxi & Limo Services**, including various apps such as Go Safr, Fly Wheel, ARRO, Curb Rider
- **Car Share**, such as Zipcar, Ride Hitch
- **Private Employer Shuttles**, including shuttles serving Abbott Labs, AbbVie, and Medline



Non-Motorized Network

Lake County DOT

- 62 miles off-street paths
- 4 miles on-street lanes

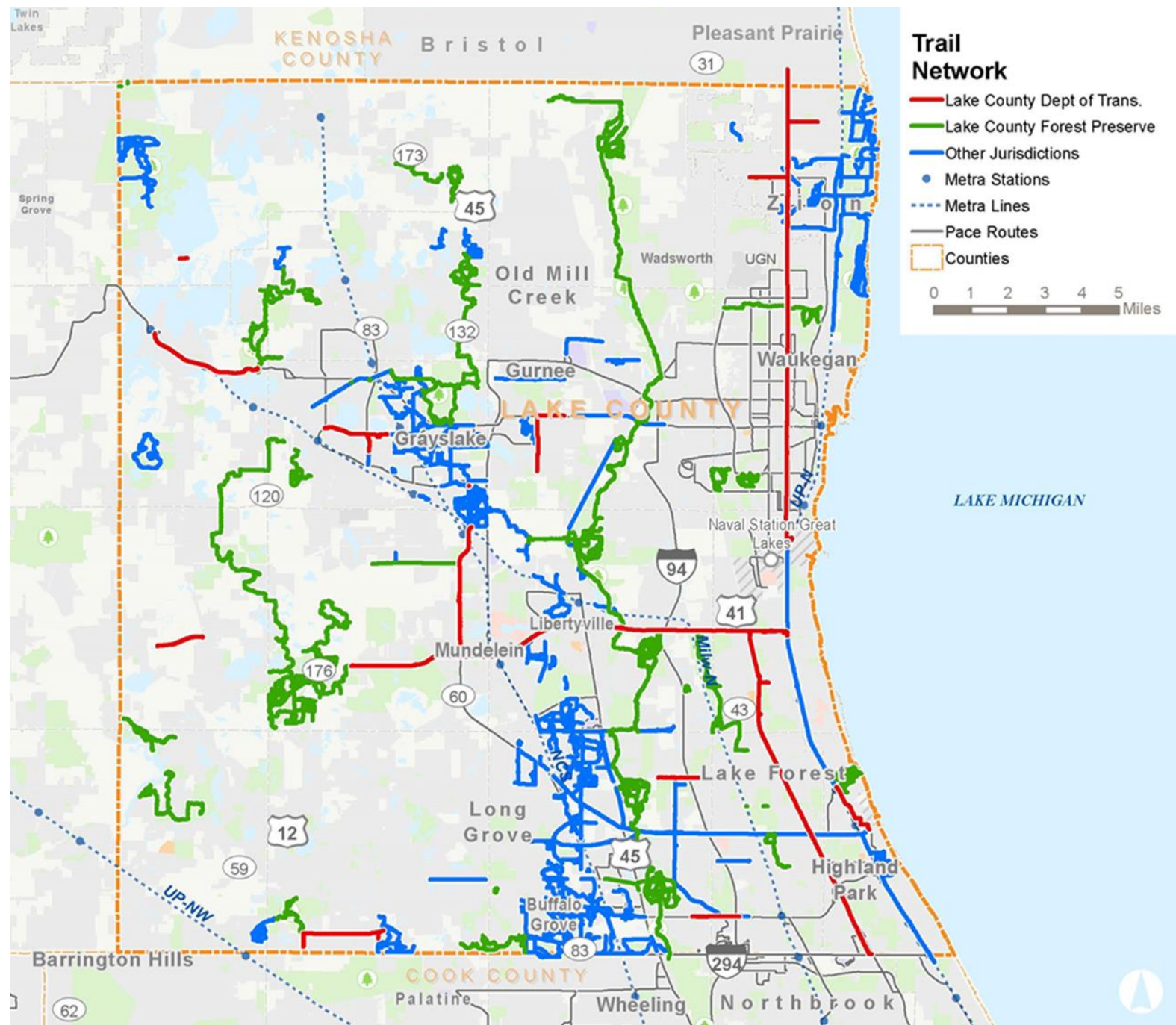
Lake County Forest Preserve

- 208 miles off-street multi-use paths

Others

- 330 miles (mostly off-street and primarily used by local residents)
- Owned by municipalities, townships, or institutions

About 60% of Lake County roadways lack sidewalks, which is higher than all other counties in the Chicago region, except McHenry



Questions?

5. ID and Evaluate SOV Reduction Measures

SOV Reduction Measure Sources



Peer Interviews



Local Case Studies



Literature / Web Search



Review of Emerging Technologies



Initial List of Measures

Agencies Interviewed

	Organization	Region Served
1	Arlington County Commuter Services	Northern Virginia within Arlington County
2	Baltimore County Government	Northeastern portion of Maryland
3	Cobb County DOT	North Central portion of the state of GA
4	Denver Reg. Council of Governments (DRCOG)	50+ local county & municipal governments near Denver, CO
5	George Washington Reg. Commission (GWRC)	City of Fredericksburg, VA & the surrounding counties
6	Metropolitan Council	Minneapolis-St. Paul, MN - metropolitan area
7	Hampton Roads Transp. Planning Org. (HRTPO)	18 counties and cities in VA
8a	Montgomery County	Adjacent to Washington D.C. with 35 townships & boroughs
8b	Montgomery County, Greater Valley Forge TMA	Montgomery County & Valley Forge National Historic Park
9	Pierce Transit	Pierce County, Washington & parts of Seattle

Local Case Studies

- Bannockburn Last-Mile Ridehail Pilot
- Transportation Management Association (TMA) of Lake-Cook
- Metra Lake County Reverse Commute Pilot (MetraMore)
- Pace Route 284 – Schaumburg – Great America Gurnee Express
- Ravinia Festival – Metra & Pace

SOV Reduction Measures – 9 Categories

- Commute Options
- Information Support
- Transit
- Rideshare
- Ped / Bike / Scooter
- Parking
- Roadway
- Land Use
- Policy

Initial List of SOV Measures – Commute Options

- Bike Share Program Membership
- Car Share Program Membership
- Commute Counted as Working Time
- Commuter Rewards / Gamification
- Compressed Work Weeks
- Education / Encouragement Events
- Employer Recognition Programs
- Fleet Vehicles / Shared Vehicles
- Flexible Work Hours
- Guaranteed Ride Home
- Mode Shift Surveying
- Shuttles (corporate, shared)
- Staggered Shift Times
- Incentives (employer provided)
- Job Sharing
- Marketing, Outreach
- On-site Amenities (childcare, banking, dining, dry cleaner)
- Pre-tax Payment for Transit/Vanpool/Parking
- Proximate Commute
- Showers and Lockers
- Staggered Shift Times
- Subsidies (employer provided) (mode specific)
- Telework / Telecommute
- Worksite Amenities

Initial List of SOV Measures – cont'd

- Information Support

- Campaigns / Promotions
- Construction / Disruption Management
- Discretionary trip reduction—retail/events
- Employer Outreach / Worksite Assessment
- Local / Regional Commute Options Prog.
- Personal Travel Planning
- Residential Outreach / Programming
- School Trip Reduction/Safe Routes to School
- Special Event Management
- TDM Marketing / Promotions
- Tourist / Tourism Management
- Transp. Management Associations (TMA)
- Traveler Information
- Wayfinding

- Transit

- Autonomous Transit Vehicles
- Bus Rapid Transit
- Discounted / Bulk Transit Pass Program
- Electric Transit Vehicles
- First / Last Mile Connections
- Flex / On-Demand Transit
- Free-Fare / Reduced-Fare Transit
- Microtransit
- Real-time Trip Options Data
- Third Shift Transit Access
- Transit Amenities (e.g., wi-fi access)
- Transit Service Levels & Speed

Initial List of SOV Measures – cont'd

- Rideshare

- Carpool
- Carshare
- Mobility as a Service (MaaS)
- Mobility on Demand (MOD)
- On-Demand (Scoop, Waze CP)
- Ride Hailing App
- Ride-matching (Commute Tracking)
- Route Planning / Multi-modal Navigation
- Slugging / Casual Carpooling
- Taxis
- Transportation Network Companies
- Vanpool

- Ped, Bike, Scooter

- Bike Infrastructure / Improvements
- Bike Parking
- Bike Safety Education
- Bike Share Programs
- E-Bikes
- E-Scooters
- Ped Safety Education
- Pedestrian Conditions
- Scooters
- Sidewalks
- Trails

Initial List of SOV Measures – cont'd

- Parking

- Dynamic parking pricing
- Mobility Hubs
- Park and Ride
- Parking Cash Out
- Parking Management
- Preferential Parking
- Shared Parking
- Unbundled Parking

- Roadway

- Complete Streets
- Congestion Pricing
- Curb Management
- High Occupancy Vehicle (HOV) Lanes
- High-Occupancy Toll (HOT) Lanes
- Pay-as-you-drive auto insurance (PAYD)
- Pay-to-drive off-peak
- Traffic Calming
- Variable Pricing

Initial List of SOV Measures – cont'd

- Land Use

- Adjust parking requirements for new developments
- Land Use Impacts on Transportation
- Regional network of telework / co-work centers
- Replace parking minimums with mobility subsidies
- Require developers to include coworking spaces in new developments
- Transit-oriented Development (TOD)
- Vehicle Trip Reduction Requirements on Development

- Policy

- E-Bikes use on trails
- Freight Management
- Rideshare Regulation / Ordinance (employer)

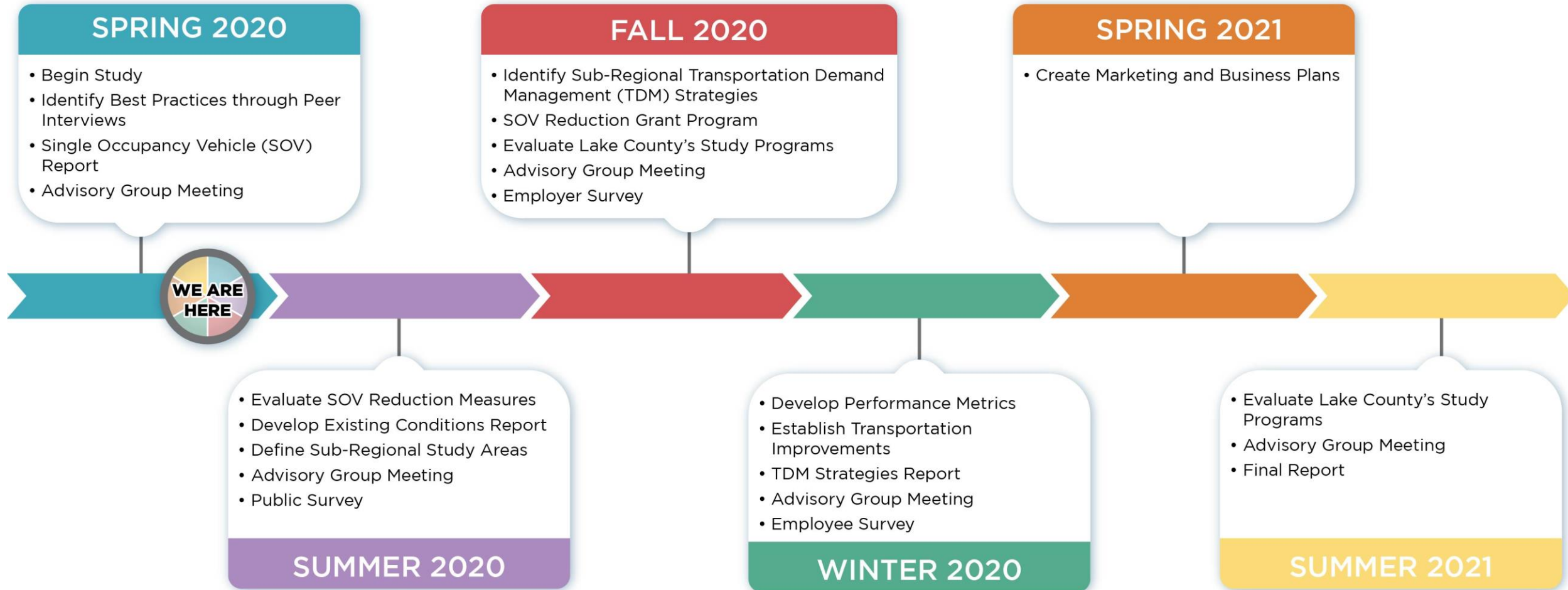
Questions?

6. Public Outreach / Public Survey

Public Engagement Plan

- Study Timeline
- Public Survey
- Outreach Materials
- Website lakecountyil.gov/sov

Study Timeline



Public Survey

Sample questions to be asked

- Demographics
- Commute before COVID-19
 - Before COVID-19, how did you normally commute to work?
- Commute after COVID-19 (vaccine)
 - After COVID-19 is resolved, how often do you expect to telecommute?
- Barriers and challenges to current transit options
 - What are challenges to the current public transit options available to you?

Answers: Travel time (how fast you can get to where you are going), Unreliable, Difficulty to get to public transit, Lack of frequent public transit services, Transit's inability to connect to where you need to get, Cost of trip, Poor service quality/ride experience, First/last mile connectivity issue, Other (with blank field)

- Employer programs and incentives

7. Next Steps

Action Items

- **Advisory Group members**

- General comments on study approach
- Comments on deliverables
 - Existing & Future Conditions Tech Memo
 - Peer Interview Tech Memo
 - Local Case Studies
- Assistance in sharing public survey

- **Lake County & Team**

- Conduct Public Survey
- Complete SOV Reduction Measures Report
- Define Sub-Regional Study Areas
- Arrange Fall 2020 Advisory Group Meeting

Advisory Group Feedback?

- **SOV Reduction Measures report – evaluation factors**

- Applicability to Lake County
- Impact on reducing SOVs
- Cost-Effectiveness
- Potential implementers
- State of technology

- **Sub-Regional Study Areas**

- Four areas to target application of SOV Reduction measures
- Cross-section of geography & activity
- Criteria
 - Geography (e.g., within each of 4 quadrants of County)
 - Activity (employment, retail/recreation, institution, residential)
 - Scale (e.g., level of employment, visitation)
 - Presence of transit
 - Degree of transportation problems (e.g., congestion)
 - Willing and interested local groups to partner

Questions?